

SEQUENCE LISTING

<110> GVS Gesellschaft für Erwerb und Verwertung von Sch

<120> Processive Sugartransferase

<130> G7204

<140>

<141>

<150> PCT/DE99/00857

<151> 1999-03-25

<150> DE 198 13 017.1

<151> 1998-03-25

<150> DE 198 19 958.9

<151> 1998-05-05

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<170> PatentIn Ver. 2.1

<210> 1

<211> 1149

<212> DNA

<213> Bacillus subtilis

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Gly Phe Gln His Val Thr Val Ser Asn Leu Tyr Gln Glu Ser Asn Pro  
35 40 45  
  
Ile Val Ser Glu Val Thr Gln Tyr Leu Tyr Leu Lys Ser Phe Ser Ile  
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Gly Lys Gln Phe Tyr Arg Leu Phe Tyr Tyr Gly Val Asp Lys Ile Tyr  
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Asn Lys Arg Lys Phe Asn Ile Tyr Phe Lys Met Gly Asn Lys Arg Leu  
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115 120 125  
  
Pro Thr Phe Asn Val Met Thr Asp Phe Cys Leu His Lys Ile Trp Val  
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His Glu Asn Val Asp Lys Tyr Tyr Val Ala Thr Asp Tyr Val Lys Glu  
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Lys Leu Leu Glu Ile Gly Thr His Pro Ser Asn Val Lys Ile Thr Gly  
165 170 175  
  
Ile Pro Ile Arg Pro Gln Phe Glu Glu Ser Met Pro Val Gly Pro Ile  
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Lys Leu Lys Val Leu Gly Tyr Val Glu Arg Ile Asp Glu Leu Phe Arg  
260 265 270

Ile Thr Asp Cys Met Ile Thr Lys Pro Gly Gly Ile Thr Leu Thr Glu  
275 280 285

Ala Thr Ala Ile Gly Val Pro Val Ile Leu Tyr Lys Pro Val Pro Gly  
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Gln Glu Lys Glu Asn Ala Asn Phe Phe Glu Asp Arg Gly Ala Ala Ile  
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Val Val Asn Arg His Glu Glu Ile Leu Glu Ser Val Thr Ser Leu Leu  
325 330 335

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attgagcacg atttatttat ggaagctcat ccaattttga cttctatttg taaaaaatgg 180  
tatatacaata gctttaaaaata ttttagaaat atgtacaaag ggttttatta cagccgccca 240  
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aacaaatgg aaacgcctat taatcaaagg cagtggtaa tagacaacaa cttagatcca 600  
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<212> PRT

<213> Staphylococcus aureus

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Met Asn Leu Asp His Leu Ser Val Ile Glu His Asp Leu Phe Met Glu  
35 40 45

Ala His Pro Ile Leu Thr Ser Ile Cys Lys Lys Trp Tyr Ile Asn Ser  
50 55 60

Phe Lys Tyr Phe Arg Asn Met Tyr Lys Gly Phe Tyr Tyr Ser Arg Pro  
65 70 75 80

Asp Lys Leu Asp Lys Cys Phe Tyr Lys Tyr Gly Leu Asn Lys Leu  
85 90 95

Ile Asn Leu Leu Ile Lys Glu Lys Pro Asp Leu Ile Leu Leu Thr Phe  
100 105 110

Pro Thr Pro Val Met Ser Val Leu Thr Glu Gln Phe Asn Ile Asn Ile  
115 120 125

Pro Val Ala Thr Val Met Thr Asp Tyr Arg Leu His Lys Asn Trp Ile  
130 135 140

Thr Pro Tyr Ser Thr Arg Tyr Tyr Val Ala Thr Lys Glu Thr Lys Gln  
145 150 155 160

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Asp Phe Ile Asp Val Gly Ile Asp Pro Ser Thr Val Lys Val Thr Gly  
165 170 175

Ile Pro Ile Asp Asn Lys Phe Glu Thr Pro Ile Asn Gln Lys Gln Trp  
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Leu Ile Asp Asn Asn Leu Asp Pro Asp Lys Gln Thr Ile Leu Met Ser  
195 200 205

Ala Gly Ala Phe Gly Val Ser Lys Gly Phe Asp Thr Met Ile Thr Asp  
210 215 220

Ile Leu Ala Lys Ser Ala Asn Ala Gln Val Val Met Ile Cys Gly Lys  
225 230 235 240

Ser Lys Glu Leu Lys Arg Ser Leu Thr Ala Lys Phe Lys Leu Thr Arg  
245 250 255

Met Tyr Leu Ile Leu Gly Tyr Thr Lys His Met Asn Glu Trp Met Ala  
260 265 270

Ser Ser Gln Leu Met Ile Thr Lys Pro Gly Gly Ile Thr Ile Thr Glu  
275 280 285

Gly Phe Ala Arg Cys Ile Pro Met Ile Phe Leu Asn Pro Ala Pro Gly  
290 295 300

Gln Glu Leu Glu Asn Ala Phe Tyr Phe Glu Glu Lys Gly Phe Gly Lys  
305 310 315 320

Ile Ala Asp Thr Pro Glu Glu Ala Ile Lys Ile Val Ala Ser Leu Thr  
325 330 335

Asn Gly Asn Glu Gln Leu Thr Asn Met Ile Ser Thr Met Glu Gln Asp  
340 345 350

Lys Ile Lys Tyr Ala Thr Gln Thr Ile Cys Arg Asp Leu Leu Asp Leu  
355 360 365

Ile Gly His Ser Ser Gln Pro Gln Glu Ile Tyr Gly Lys Val Pro Leu  
370 375 380

Tyr Ala Arg Phe Phe Val Lys  
385 390